RCA

LCD Television User's Guide

Hospital-Grade LCD Television Receiver

J12H770

Changing Entertainment. Again.

Important Information

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK).
NO USER SERVICEABLE PARTS INSIDE.
REFER TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

Product Registration

Please fill out the product registration card (packed separately) and return it immediately. For US customers: Your RCA Consumer Electronics product may also be registered at http://service.rcacommercialtv.com. Registering this product allows us to contact you if needed.

Product Information

Keep your sales receipt to obtain warranty parts and service and for proof of purchase. Attach it here and record the serial and model numbers in case you need them. These numbers are located on the product.

Model No. _____

Serial No. _____

Purchase Date: _____

Dealer/Address/Phone: _____

NOTE TO CABLE TV INSTALLER

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

CAUTION

Do not attempt to modify this product in any way without written authorization from RCA.
Unauthorized modification could void the user's authority to operate this product.

CAUTION

THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE
THE RISK OF ELECTRIC SHOCK, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE
OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.

WARNING

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall
not be placed on the apparatus.

CAUTION

When used outside of U.S., other power supply cords may be used if the cord is approved by the local regu-
lating agency.

CLEANING AND DISINFECTION

CLEANING : Clean the exterior of this television by removing dust with a lint-free cloth.
For further cleaning, use a soft cloth or paper towel dampened with water.
CAUTION : To avoid damage to the surface of the television, do not use abrasive or chemical cleaning
agents.
DISINFECTING : Do not immerse this TV, rather clean with a soft damp cloth.
To avoid damage to the surface of the television, test a small portion of the TV's cabinet with any new disin-
fectant to verify that the disinfectant will not discolor or soften the enclosure.

This apparatus with class I construction shall be connected to a main socket outlet with a protective earthing
connection.

INSTALLATION PRECAUTIONS

- Any changes or modifications in construction of this television, which are not expressly approved by the
  party responsible for compliance, could void the user's authority to operate the equipment.
- Use only a power source from the CPS1000. This TV will operate on DC voltage, 24 volts.

COAX CABLE SPECIFICATION

Coax cable selection is critical when the TV is powered from a central power supply.
Due to long coax cable runs encountered in hospital installations, coax cable employing a solid copper center
conductor and copper shield is required. Cable run lengths MUST NOT exceed 150 feet. Required coaxial
cable numbers include Alpha 9804C (non-plenum), Belden 9248 (non-Plenum), West Penn 806 (non-Plenum),
or West Penn 25806 (Plenum), which have been tested with coax-powered televisions.

WARNING OXYGEN ENVIRONMENT

Do not use in any oxygen tent or oxygen chamber. Such use may cause a fire hazard.

Important Information

DISCONNECTING DEVICE FROM MAINS

Main plug of the power supply unit is the disconnecting device. The plug must remain readily operable.

IMPORTANT SAFEGUARDS FOR YOU AND YOUR NEW PRODUCT

YOUR PRODUCT HAS BEEN MANUFACTURED AND TESTED WITH YOUR SAFETY IN MIND. HOWEVER, IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARDS. TO AVOID DEFEATING THE SAFEGUARDS THAT HAVE BEEN BUILT INTO YOUR NEW PRODUCT, PLEASE READ AND OBSERVE THE FOLLOWING SAFETY POINTS WHEN INSTALLING AND USING YOUR NEW PRODUCT, AND SAVE THEM FOR FUTURE REFERENCE. OBSERVING THE SIMPLE PRECAUTIONS DISCUSSED IN THIS MANUAL CAN HELP YOU GET MANY YEARS OF ENJOYMENT AND SAFE OPERATION THAT ARE BUILT INTO YOUR NEW PRODUCT.

Note
- If the TV feels cold to the touch, there may be a small "flicker" when it is turned on. This is normal, there is nothing wrong with the TV.
- Some minute dot defects may be visible on the screen, appearing as tiny red, green, or blue spots. However, they have no adverse effect on the TVs performance.
- Avoid touching the LCD screen or holding your finger(s) against it for long periods of time. Doing so may produce some temporary distortion effects on the screen.

REGULATORY INFORMATION

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.
These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a residential installation.
This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation.
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

THE PARTY RESPONSIBLE FOR PRODUCT COMPLIANCE
(RCA Commercial Electronics)
(TELEPHONE NO : 800-RCA-2161)

IMPORTANT SAFETY INSTRUCTIONS
Read before operating equipment

1. Read these instructions.

2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

6. Clean only with dry cloth.

7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Only use attachments/accessories specified by the manufacturer.

12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984 (Section 54 of Canadian Electrical Code, Part 1) provides information with respect to proper grounding of the mast and supporting structure, grounding of the leadin wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See following example.
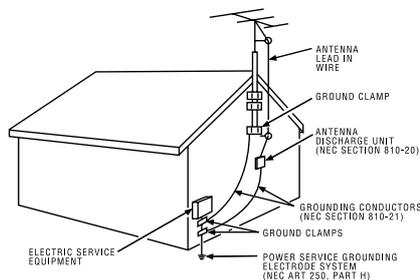
Note
- The lamp in this product contains mercury. Please dispose of in accordance with local, state, or federal laws.

Table of Contents

"User must use shielded signal interface cables with ferrite cores to maintain standard compliance for the product"

Things to Consider Before You Connect

Protect Against Power Surges

- Connect all devices before you plug any of their power cords into the wall outlet or power strip. NEVER plug your TV into an outlet that is controlled by a wall switch.
- Turn off the TV and/or device(s) before you connect or disconnect any cables.
- Make sure all antennas and cables are properly grounded. Refer to the Important Safety Instructions at the beginning of the User's Guide.

Protect Devices from Overheating

- Don't block ventilation holes on any of the devices. Arrange the devices so that air can circulate freely.
- Don't stack devices.
- If you place devices in a stand, make sure you allow adequate ventilation.
- If you connect an audio receiver or amplifier, place it on the top shelf so the heated air from it won't flow around other devices.

Position Cables Properly to Avoid Audio Interference

- Insert each cable firmly into the designated jack.
- If you place devices above the TV, route all cables down the side of the back of the TV instead of straight down the middle.
- If your antenna uses 300-ohm twin lead cables, do not coil the cables. Also, keep the twin lead cables away from audio/video cables.

Use Indirect Light

Don't place the TV where sunlight or room lighting will be directed toward the screen. Use soft or indirect lighting.

Remote Control

You will need a master remote or USB Cloner to set up the TV. Contact your RCA Commercial Distributor to purchase these.

Check Supplied Parts

Check that the following parts were packed with your product.
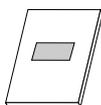
Optional
Model No. : CPS1000

Optional
Model No. : BRK1000

Owner's Manual   Power Unit   Power Cord   DVD Bracket

Note
- If you need to replace your remote, call 800-RCA-2161. A shipping and handling fee, and the appropriate sales tax, will be charged upon ordering. Have your Visa, MasterCard, or Discover Card ready.
- DVD Bracket is supported in J12H770-DV3, J12H770-DV4 model only.
- DVD Bracket (BRK1000) can support to hold on itself under the weight of 1Kg products likes slim DVD player.
- Power Unit (CPS1000) needs a minimum RF level of +20dBmV for a healthy RF signal level at TV (J12H770).

Chapter 1: Connections and Setup

Front Panel
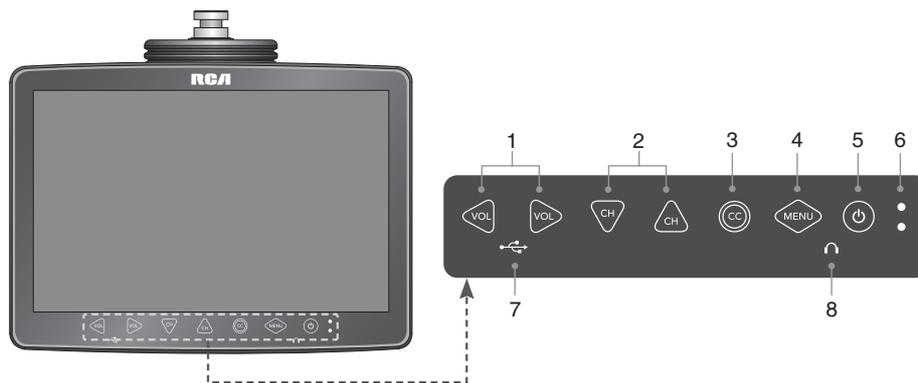
1. **VOL- / VOL+**
   Adjusts sound level and menu settings.

2. **CH- / CH+**
   Select a channel and menu settings.

3. **CC**
   Selects caption mode in TV.
   Selects items in MENU OSD.
   Display MMP MENU in USB.

4. **MENU**
   Display on screen menus.

5. **POWER**
   Switches the set on or off.

6. **Power Indicator**
   Illuminates to blue when the TV is on. When the TV is powered off, this LED is also off.
   Remote control sensor
   Accepts the IR signal of remote controller.

Note
- Image shown may differ from your TV.

Bottom Panel

1. **USB IN**
   USB device interface.
   If user insert USB Memory then TV will go to USB mode and play photo or music automatically.

2. **Headphone**
   Connect the headphone plug to this socket.

Note
- Image shown may differ from your TV.

Chapter 1: Connections and Setup

Installing TV on Suspension Arm - J12H770-NO3 / J12H770-NO4

The J12H770 is designed to attach to a wall mounted suspension arm capable of supporting a television weighting 14 pounds. The single coaxial cable on top of the unit is used to supply either low voltage DC power (24 volts) and the RF signal to the television.

Male RF Cable

Female Composite Cable (Video, Audio L/R)

Female 3.5mm Stereo Cable (RS232C)

⚠ DANGER: ARM RECOIL HAZARD The safety brake pin must remain in the SAFETY BRAKE PIN HOLE whenever the television set is removed from the arm or when the arm is removed from the wall bracket to prevent the arm from springing open.

CAUTION: DO NOT REMOVE the Beige silicon cover from the swivel assembly. This swivel assembly is factory preassembled and adjusted. There is no need to remove the cover.

IMPORTANT: These instructions detail installing the TV onto the FC-80 suspension arm. This arm is configured specifically for this television. The J12H770 may be installed on other FC Series arms.

Installing TV on Suspension Arm - J12H770-DV3 / J12H770-DV4

The J12H770 is designed to attach to a wall mounted suspension arm capable of supporting a television weighting 14 pounds. The single coaxial cable on top of the unit is used to supply either low voltage DC power (24 volts) and the RF signal to the television.

Male RF Cable

Female 3.5mm Stereo Cable (RS232C)

Male 3.5mm Cable (Y, Pb, Pr)

Male DC 5V Jack

Male 3.5mm Cable (Audio)

⚠ DANGER: ARM RECOIL HAZARD The safety brake pin must remain in the SAFETY BRAKE PIN HOLE whenever the television set is removed from the arm or when the arm is removed from the wall bracket to prevent the arm from springing open.

CAUTION: DO NOT REMOVE the Beige silicon cover from the swivel assembly. This swivel assembly is factory preassembled and adjusted. There is no need to remove the cover.

IMPORTANT: These instructions detail installing the TV onto the FC-80 suspension arm. This arm is configured specifically for this television. The J12H770 may be installed on other FC Series arms.

Headphone

Bottom panel of the set

1. Insert the headphone plug to the headphone socket of the set.

2. You can listen to the sound through the headphone.

3. To adjust the headphone volume, press the **VOL+ / VOL-** button.
   Control the volume of the headphone to the appropriate level.

   Listening for a long time with the volume set too high may cause permanent damage to your hearing.

USB Port

Bottom panel of the set

USB Memory
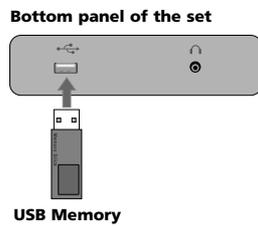
1. Connect the USB device to the USB IN jack on the set.

2. TV will go to USB and play photo or music automatically.

3. Follow the on screen display to access the USB functions.

Basic(User) Remote

The basic remote control (R130K1) is used by the viewer for basic operating functions. It is designed so that the viewer cannot alter certain master remote-specified features. The Sleep, Closed Captioning, and Channel Guide features can be accessed directly with remote buttons.
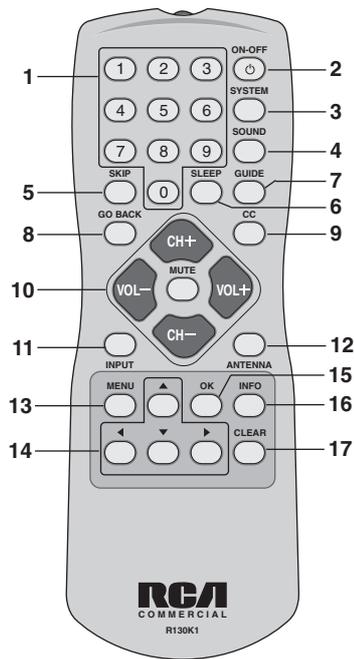
1. **NUMBER BUTTONS**
   Selects channel numbers.
2. **ON-OFF**
   Switches the set on or off.
3. **SYSTEM**
   Configures the remote for TV1/TV2/TV3.
   Configures the remote preamble (Bed 1/Bed 2/Bed 3) for use with multi TVs in 1 room.
   Press and hold <SYSTEM> and <1> key to set the remote for "Bed1"(TV1).
   Press and hold <SYSTEM> and <2> key to set the remote for "Bed2"(TV2).
   Press and hold <SYSTEM> and <3> key to set the remote for "Bed3"(TV3).
   Refer to "Key Management","RCU type" in Chapter 5.
4. **SOUND**
   Recalls your preferred sound setting.
5. **SKIP**
   Unused
6. **SLEEP**
   Sets the sleep timer.
7. **GUIDE**
   Display "Channel List" menu.
8. **GO BACK**
   Return to the previous menu.
9. **CC**
   Select the Caption menu directly.
10. **VOL + / VOL -**
    Adjusts sound level.
    CH + / CH -
    Select a channel.
    MUTE
    Switches the sound on or off.
11. **INPUT**
    Selects the **TV**, **AV** or **USB** mode.
12. **ANTENNA**
    Unused
13. **MENU**
    Displays "Basic" on screen menu.
    There are 2 remotes for this TV;
    R130K1 - user Remote. This remote displays a basic user menu when the menu key is pressed.
    R130K2 - installer Remote. This remote displays an installer menu when the menu key is pressed.
14. **Navigational Controls**
    Adjusts menu settings.
    Selects menu item.
15. **OK**
    Accepts your selection.
16. **INFO**
    Display the current channel information.
17. **CLEAR**
    Exit from any OSD.

Master(Installer) Remote

The master remote control (R130K2) accesses all of the TV's menus. It is used to customize the TV's functionality for specific users or specific situations.

1. **NUMBER BUTTONS**
   Selects channel numbers.
2. **ON-OFF**
   Switches the set on or off.
3. **SYSTEM**
   Configures the remote for TV1/TV2/TV3.
   Configures the remote preamble (Bed 1/Bed 2/Bed 3) for use with multi TVs in 1 room.
   Press and hold <SYSTEM> and <1> key to set remote for "Bed1".
   Press and hold <SYSTEM> and <2> key to set the remote for "Bed2".
   Press and hold <SYSTEM> and <3> key to set the remote for "Bed3".
   Refer to "Key Management","RCU type" in Chapter 5.
4. **RESET**
   Unused.
5. **SKIP**
   Unused
6. **SLEEP**
   Sets the sleep timer.
7. **GUIDE**
   Display "Channel List" menu.
8. **GO BACK**
   Return to the previous menu.
9. **CC**
   Select the Caption menu directly.
10. **VOL + / VOL -**
    Adjusts sound level.
    CH + / CH -
    Select a channel.
    MUTE
    Switches the sound on or off.
11. **INPUT**
    Selects the **TV**, **AV** or **USB** mode.
12. **ANTENNA**
    Unused
13. **MENU**
    Displays "Installer" on screen menu.
    There are 2 remotes for this TV;
    R130K1 - user Remote. This remote displays a basic user menu when the menu key is pressed.
    R130K2 - installer Remote. This remote displays an installer menu when the menu key is pressed.
14. **Navigational Controls**
    Adjusts menu settings.
    Selects menu item.
15. **OK**
    Accepts your selection.
16. **INFO**
    Display the current channel information.
17. **CLEAR**
    Exit from any OSD.

Put Batteries in the Remote

- Remove the battery compartment cover from the back of the remote by pushing the tab and lifting off the cover.

- Insert two fresh batteries. Make sure the polarities (+ and -) are aligned correctly.

- Replace the cover.

These TVs include a full commercial interface that allows your facility to customize the performance to your specific needs. These settings are only accessible to the installer with the use of the Master Remote(R130K2). Contact your RCA Commercial Distribution to obtain a master remote.
You can access this menu by pressing MENU -> 9 -> 6 -> 3 -> 2 using the Master Remote.

Learning

Copying settings out of TV.
You should connect USB Memory to USB port of TV before copy settings out of TV.
This USB Memory should have file for copy settings from TV.
(filename is under 8 characters and extension name is ".lst".)

1. Press the **Down** or **Up** button to select **Clone Management** and then press the **OK** button to enter the sub-menu.

2. Press the **Down** or **Up** button to select **Copy To USB** and then press the **OK** button to enter the sub-menu.

3. Press the **Down** or **Up** button to select desired file and then press the **OK** button to copy.

4. Press the **MENU** button to return to the previous menu.

Commercial Interface	
Commercial Interface	On ◄ ►
Clone Management	►
Channel	►
OSD	►
Source	►
Volume	►
Power Management	►
Key Management	►
Reset Commercial Interface	►

ENTER OK ◄►/♦ Select MENU Exit

Commercial Interface	
Copy To USB	►
Clone To TV	►

ENTER OK ◄►/♦ Select MENU Exit

Copy To USB	
1	12345678 .lst
2	J22H760.lst
3	J12H770.lst
4	2345678.lst

ENTER Set ◄►/♦ Select MENU Back

Teaching

Placing settings into TV.

1. Press the **Down** or **Up** button to select **Clone Management** and then press the **OK** button to enter the sub-menu.

2. Press the **Down** or **Up** button to select **Clone To TV** and then press the **OK** button to enter the sub-menu.

3. Press the **Down** or **Up** button to select desired file and then press the **OK** button to clone.

4. Press the **MENU** button to return to the previous menu.

Commercial Interface		
Commercial Interface	On	◄ ►
Clone Management		►
Channel		►
OSD		►
Source		►
Volume		►
Power Management		►
Key Management		►
Reset Commercial Interface		►

ENTER OK   ◄►/◆ Select   MENU Exit

Commercial Interface	
Copy To USB	►
Clone To TV	►

ENTER OK   ◄►/◆ Select   MENU Exit

Copy To USB	
1	12345678 .lst
2	J22H760.lst
3	J12H770.lst
4	2345678.lst

ENTER Set   ◄►/◆ Select   MENU Back
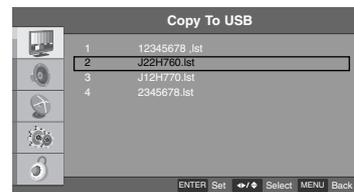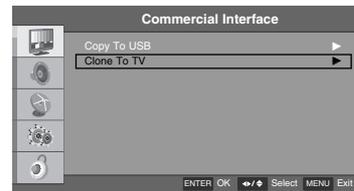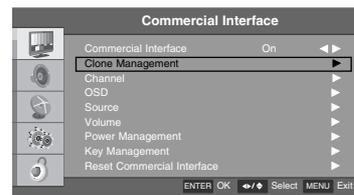
Plug in the TV

Plug the end of the power cord into the back of the TV. Plug the other end into a grounded wall outlet. Insert the plug completely into the outlet. Do not plug into an outlet controlled by a light switch.

Turn on the TV

Turn on your TV by pressing the Power button on the front of the TV or ON-OFF on the remote control.

Channel Scan

This function automatically finds all channels available through the Antenna or Cable and stores them in memory on the channel list.
Channel Scans can only be performed using a Master remote.

Channel Selection

You can select a channel number with the **CH + / CH -** button or NUMBER buttons.

Volume Adjustment

Press the **VOL+ / VOL-** button to adjust the sound level.

Sound Mute

Press the **MUTE** button. The sound is switched off and the mute Icon appears.
To cancel mute mode, press the **MUTE** or **VOL+ / VOL-** button again.

Source Selection

1. Press the **INPUT** button to change the input mode.

2. Press the **Down** or **Up** button to select your desired mode.

3. Press the **OK** button to change your selected mode.

Input Source
√ TV
AV
USB
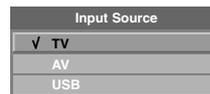
Language Selection

1. Press the **MENU** button and then press the **Down** or **Up** button to select the **Setup**.

2. Press the **OK** button and then press the **Down** or **Up** button to select **OSD Language**.

3. Press the **Left** or **Right** button to select your desired language.
   (Select between **English**, **Español**, **Français**)

4. The on screen menu will then appear in the selected language.
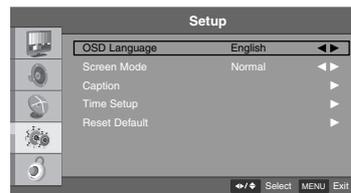
Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►
	◄►/♦ Select MENU Exit	

These TVs include a full commercial interface that allows your facility to customize the performence to your specific needs. These settings are only accessible to the installer with the use of the Master Remote(R130K2). Contact your RCA Commercial Distribution to obtain a master remote.
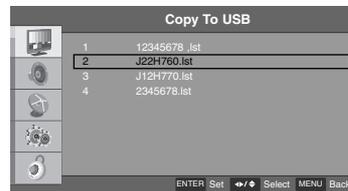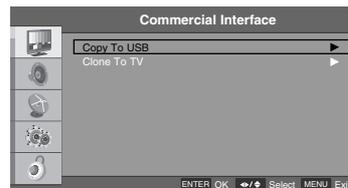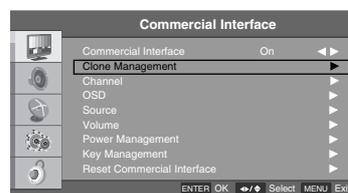You can access this menu by pressing MENU -> 9 -> 6 -> 3 -> 2 using the Master Remote.

	Commercial Interface		
	Commercial Interface	On	◄►
	Clone Management		►
	Channel		►
	OSD		►
	Source		►
	Volume		►
	Power Management		►
	Key Management		►
	Reset Commercial Interface		►
		◄►/♦ Select MENU Exit	
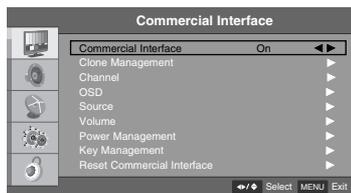
- You must set "Commercial Interface" to "On" to activate the below items.

Channel

Commercial Interface		
Commercial Interface	On	◄►
Clone Management		►
Channel		►
OSD		►
Source		►
Volume		►
Power Management		►
Key Management		►
Reset Commercial Interface		►
ENTER OK ◄►/♦ Select MENU Exit		

Commercial Interface		
Direct Tuning Access	On	◄►
ATSC Tune Mode	Virtual	◄►
Power On Source	Off	◄►
Power On Major Channel		2
Power On Miner Channel		0
Channel Hold	Off	◄►
◄►/♦ Select MENU Back		
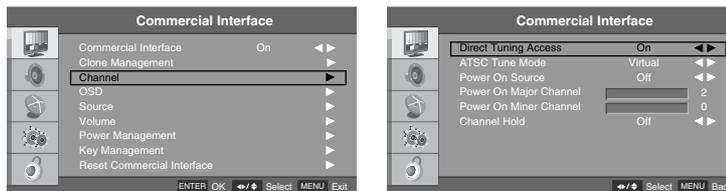
- Direct Tuning Access : If this function is on, you can tune to channels even if the channels are not in the channel list using the numeric keys. If this function is off, only channels in the channel list can be tuned.
- ATSC Tune Mode : This function sets the channel frequency type for Digital Channels to physical or virtual. If the facility has a head end signal distribution system, set this to "physical".
- Power On Source : Use this setting to configure the signal source of the TV when it is turned on.
- Power On Major/Minor Channel : Use this setting to configure the initial channel of the TV when it is turned on.
   Note: "Power On Source" should be set to "TV" to use this setting.
   To tune to an analog channel, set minor channel to 0.
- Channel Hold : If this function is on then you cannot change channels.

OSD

Commercial Interface		
Commercial Interface	On	◄►
Clone Management		►
Channel		►
OSD		►
Source		►
Volume		►
Power Management		►
Key Management		►
Reset Commercial Interface		►
ENTER OK ◄►/♦ Select MENU Exit		

Commercial Interface		
Channel Banner	On	◄►
OSD Timer	60S	◄►
Clear V-Chip		
◄►/♦ Select MENU Back		
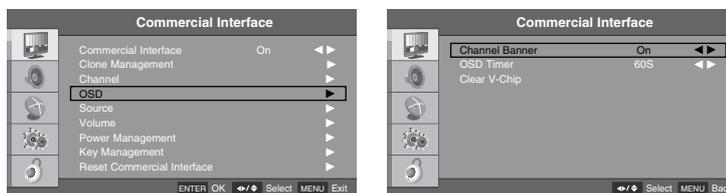
- Channel Banner : If this function is off then channel banner will not appear when channel is changed.
- OSD Timer : Use this setting to configure the menu OSD time out.
- Clear V-Chip : This function can be used to Clear V-Chip password and settings.

Chapter 5: Commercial Interface Menus

Source

Commercial Interface	
Input Block	▶
AUX Inputs	▶

ENTER OK ◆/◆ Select MENU Exit

Commercial Interface		
1	TV	☐
2	AV	☐
3	USB	☐

ENTER Set ◆/◆ Select MENU Back
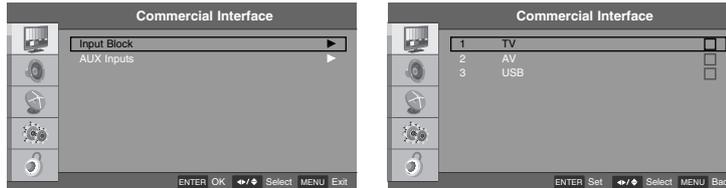
- Input Block : Use this setting to configure which inputs are available to the user through the input button.

Commercial Interface	
Input Block	▶
AUX Inputs	▶

ENTER OK ◆/◆ Select MENU Exit

Commercial Interface		
AV	Off	◀▶
USB	Off	◀▶

◆/◆ Select MENU Exit
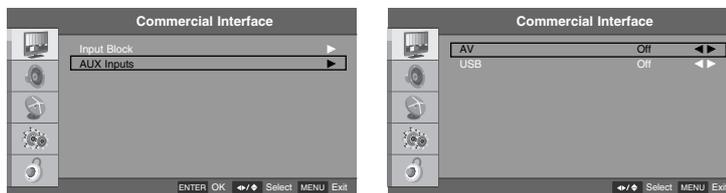
- AUX Inputs : Use this setting to place inputs into the channel list. If you place an input in the channel list, the user can access the input using the CH buttons on the remote and Pillow Speaker.

Volume

Commercial Interface		
Commercial Interface	On	◀▶
Clone Management		▶
Channel		▶
OSD		▶
Source		▶
Volume		▶
Power Management		▶
Key Management		▶
Reset Commercial Interface		▶

ENTER OK ◆/◆ Select MENU Exit

Commercial Interface		
Initial Volume		30
Min Volume		0
Max Volume		0
Volume Hold	Off	◀▶
Blank and Mute	Off	◀▶

ENTER Adjust ◆/◆ Select MENU Back
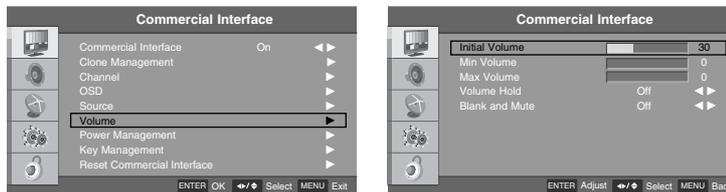
- Initial Volume : This setting configures the turn on volume of the TV.
- Min Volume : This setting assigns the minimum volume level that the user can access.
- Max Volume : This setting assigns the maximum volume level that the user can access.
- Volume Hold : If this function is on then user cannot adjust volume level
- Blank and Mute : If this function is on, sound will be muted when video is not present on the external video source.

Power Management

- Auto Power On : This function sets the power state when AC power is applied to the TV.
  + Off : TV will go to stanby mode
  + On : TV will turn on
  + Last : TV will resume the state it was in before AC power was removed.
- Auto Power Off : This function assigns the amount of time an inactive TV will remain on. It can be used by your facility to save energy.
- Power Always On : TV can not be turned off.

Key Management
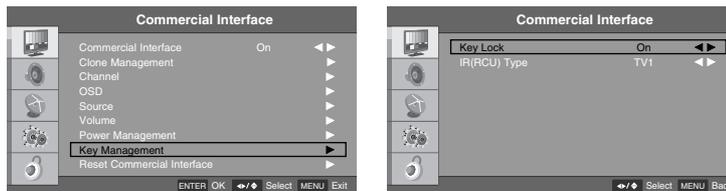
- Key Lock : This setting disables the keys on the front of the TV.
- RCU Type : This function assigns RCU type as TV1, TV2, TV3. This is used when more than 1 TV is being installed in the same room.
  Note : The remote must be configured to send the matching RCU Type corresponding to this setting.
  This is done as follows : On the R130 K1 remote, press hold <SYSTEM> and <1> keys for 5 seconds to set it to "TV1". Press and hold <SYSTEM> and <2> keys for 5 seconds to set it to "TV2". Press and hold <SYS-TEM> and <3> keys for 5 seconds to set it to "TV3".

Reset Commercial Reset
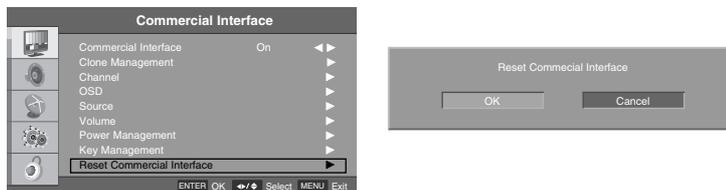
- This function will reset all data in the commercial interface menu to the factory defaults.

Chapter 6: User Operations

Picture Mode

The various Picture Modes allow you to adjust the display to your viewing preference.

Sound Mode

The Sound Mode preset selection will allow you to adjust the sound to your listening preference.

MTS

This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that the station may transmit. The television will automatically switch to Mono sound if the broadcasted channel is transmitted in Mono.

Audio Language

Other languages may be available if a digital signal is provided by the broadcasting station.

OSD Language

You can select your language in OSD.

Input Source

You can change input source to TV, AV, USB.

Screen Mode

You can watch the screen in various picture formats. Screen size selection depends on the type of video input.

Caption

The Analog Caption function operates when watching a regular analog channel.

Parental

You can adjust V-chip levels.

MENU		
Picture Mode	User	◄►
Sound Mode	Off	◄►
MTS	Stereo	◄►
Audio Language	English	◄►
OSD Language	English	◄►
Input Source	TV	◄►
Screen Mode	Normal	◄►
Caption		►

ENTER OK ◄►/♦ Select MENU Exit

Parental	
Program Block	►
Change Password	►
Clean All	►

ENTER OK ◄►/♦ Select MENU Back
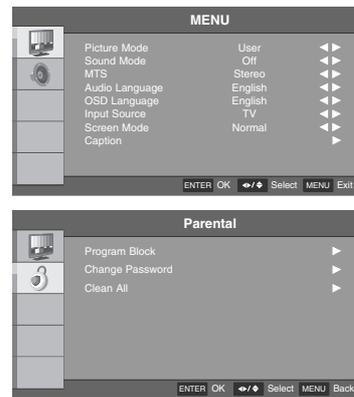
On Screen Menus

Your TV's OSD(On Screen Display) may differ slightly from what is shown in this manual.

1. Press the **MENU** button and then press the **Down** or **Up** button to select each menu.

2. Press the **OK** button and then **Down**, **Up**, **Left** and **Right** buttons to navigate to the available menus.

Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Gamma	Middle	◄ ►
Color Temperature		►
Advanced Video		►
Reset Picture Mode		►
ENTER OK ◄►/◆ Select MENU Exit		

Video MENU

Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄ ►
Sound Mode	Off	◄ ►
Equalizer	Off	◄ ►
SPDIF Type	PCM	◄ ►
MTS	Stereo	◄ ►
Audio Language	English	◄ ►
ENTER OK ◄►/◆ Select MENU Exit		

Audio MENU

Parental	
Program Block	►
Change Password	►
Clean All	►
ENTER OK ◄►/◆ Select MENU Exit	

Parental MENU

TV		
Tuner Mode	Cable	◄ ►
Channel Scan		►
Channel Skip		►
ENTER OK ◄►/◆ Select MENU Exit		

TV MENU

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►
ENTER OK ◄►/◆ Select MENU Exit		

Setup MENU

Chapter 7: Using the TV's Features

Note : Some of these menu items can only be accessed using the Master Remote(R130K2).

Setting up the TV Channel

This TV prevents the user from changing the channel list.

Auto Scan

This function automatically finds all channels available through the Antenna or Cable and stores them in memory as the channel list.

1. Press the **MENU** button on the master remote to enter the on-screen menu and then press either the **Down** or **Up** button to select the **TV** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Tuner Mode**.

3. Press the **Left** or **Right** button to select either **Antenna** or **Cable**.

4. Press the **Down** or **Up** button to select **Channel Scan**.

5. Press the **OK** button to start the auto search. The TV will begin memorizing all of the available channels.

6. Press the **MENU** button at any time to exit the channel scan process.

7. Once the channel scan is complete the channels found and recognized by the TV will be available for viewing.

TV		
Tuner Mode	Cable	◄ ►
Channel Scan		►
Channel Skip		►

◄►/♦ Select MENU Exit

TV		
Tuner Mode	Cable	◄ ►
Channel Scan		►
Channel Skip		►

ENTER Scan ◄►/♦ Select MENU Back

TV

Status:Scanning..   Cable
Analog Channels:1
Digital Channels:0

                             10%

MENU Cancel
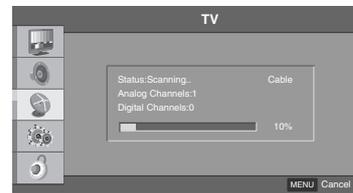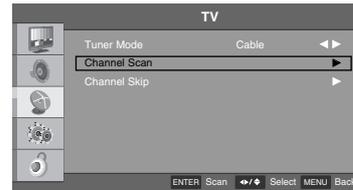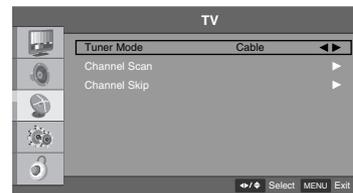
Add / Delete a Channel

You can manually store or remove channels in whatever order you desire.

1. Press the **MENU** button on the master remote to enter the on-screen menu and then press either the **Down** or **Up** button to select the **TV** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Channel Skip**.

3. Press the **OK** button and then press the **Down** or **Up** button to select channel you want to add or delete.
   If you want to skip the selected channel, press the **OK** button to uncheck your selection.

4. All channels that have a check will be added to your viewing selection.

5. Press the **MENU** button to return to the previous menu.

TV		
Tuner Mode	Cable	◄ ►
Channel Scan		►
Channel Skip		►

ENTER OK   ◄►/◆ Select MENU Exit

Channel Skip		
1	Analog	☑
2	Analog	☑
3	Analog	☑
4	Analog	☑
5	Analog	☑
6	Analog	☑
7	Analog	☑
8	Analog	☑
9	Analog	☑

ENTER Set   ◄►/◆ Select MENU Back
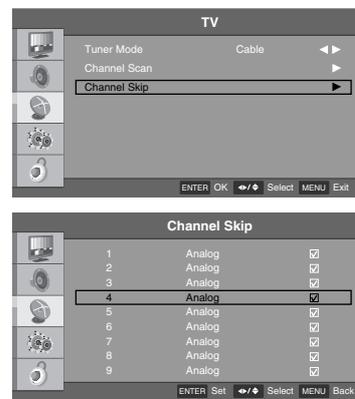
Picture Controls

Adjusting The Picture Controls

The various Picture Modes allow you to adjust the display to your viewing preference.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Picture Mode**.

3. Press the **Left** or **Right** button to select between **Cinema**, **Sport**, **Vivid**, **Hi-Bright** or **User** Picture Modes.

4. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►
	◄►/♦ Select MENU Exit	
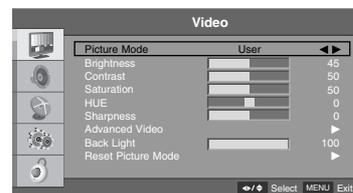
Manual Picture Controls

You can adjust picture Brightness, Contrast, Saturation, HUE and Sharpness to the levels you prefer.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and use the **Left** or **Right** button to change the picture mode to **User**. Then, press either the **Down** or **Up** button to scroll to the desired picture option. (**Brightness**, **Contrast**, **Saturation**, **HUE**, **Sharpness**)

3. Press the **OK** button and then use the **Left** or **Right** button to adjust the selection to your preference.

4. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

◄►/♦ Select   MENU Exit
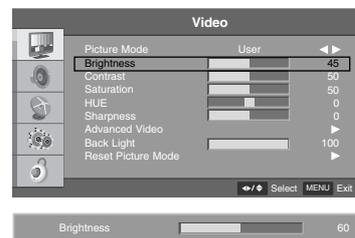
Brightness 60

- **Brightness**
  Increases or decreases amount of white in the your picture.

- **Contrast**
  Adjusts the difference between the light and dark levels in the picture.

- **Saturation**
  Adjusts intensity of all colors.

- **HUE**
  Adjusts the balance between red and green levels.

- **Sharpness**
  Adjusts the level of sharpness in the edges between the light and dark areas of the picture. The lower the level, the softer the image.

Back Light

Adjusts the brightness level of the back light.
Increasing the Back Light level will result in a brighter picture and is recommended for use brightly lit rooms, however, it will also decrease your black levels and results in a higher power consumption.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Back Light**.

3. Press the **Left** or **Right** button to adjust the selection to your preference.

4. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER Adjust ◄►/♦ Select MENU Exit

| Back Light | | 100 |
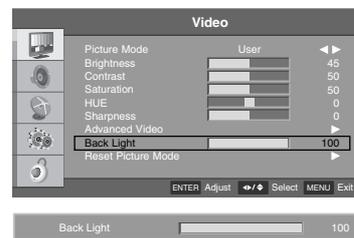
Reset Picture Mode

When changing your settings, you can select the Reset Picture Mode option to restore the previous settings.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and use the **Down** or **Up** button to select **Reset Picture Mode**.

3. Once the confirmation window appears, press **OK** to restore the previous settings.

Video		
Picture Mode	User	◄►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK   ◄►/◆ Select   MENU Exit

Are you sure?

OK	Cancel

Advanced Video

Dynamic Noise Reduction

Use this feature to reduce the amount of noise, or film grain, that may be present in the picture.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button to enter the submenu and then press the **Down** or **Up** button to select **DNR**.

4. Press the **Left** or **Right** button to select between **Off**, **Low**, **Medium**, **Strong** or **Auto**.

5. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK   ◄►/♦ Select   MENU Exit

Advanced Video		
DNR	Medium	◄►
MPEG NR	Low	◄►
Adaptive Luma Control	Off	◄►
Flesh Tone	Off	◄►
DI Film Mode	Auto	◄►
Blue Stretch	Off	◄►
Game Mode	Off	◄►
Blue Mute	On	◄►
Gamma	Middle	◄►
Color Temperature		►

◄►/♦ Select   MENU Back
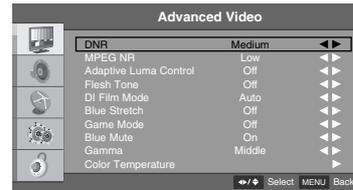
- **Off**
  Turns the screen noise reduction function off.

- **Low**
  Reduces screen noise at a low level.

- **Medium**
  Reduces screen noise at a medium level.

- **Strong**
  Reduces screen noise at a high level.

- **Auto**
  Automatically adjusts the noise reduction level according to received signal.

Adaptive Luma Control

Large amounts of dark areas present in a picture will result in a lower Average Picture Level (APL) and the overall picture will look too dark; activation of this feature will raise the APL to counteract this effect.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Adaptive Luma Control**.

4. Press the **Left** or **Right** button to select **On** or **Off**.

5. Press the **MENU** button to return to the previous menu.

	Video	
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK ◄►/♦ Select MENU Exit

	Advanced Video	
DNR	Medium	◄ ►
MPEG NR	Low	◄ ►
Adaptive Luma Control	Off	◄ ►
Flesh Tone	Off	◄ ►
DI Film Mode	Auto	◄ ►
Blue Stretch	Off	◄ ►
Game Mode	Off	◄ ►
Blue Mute	On	◄ ►
Gamma	Middle	◄ ►
Color Temperature		►

◄►/♦ Select MENU Back
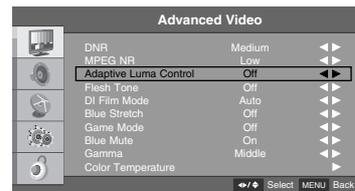
Flesh Tone

In some cases, activation of this feature can result in a more pleasing display of sky and flesh colors.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Flesh Tone**.

4. Press the **Left** or **Right** button to select **On** or **Off**.

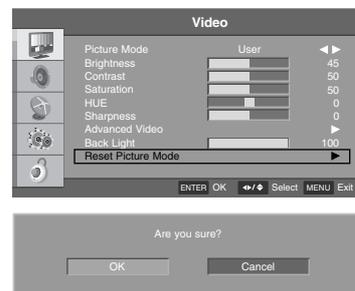5. Press the **MENU** button to return to the previous menu.

	Video	
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK ◄►/♦ Select MENU Exit

	Advanced Video	
DNR	Medium	◄ ►
MPEG NR	Low	◄ ►
Adaptive Luma Control	Off	◄ ►
Flesh Tone	Off	◄ ►
DI Film Mode	Auto	◄ ►
Blue Stretch	Off	◄ ►
Game Mode	Off	◄ ►
Blue Mute	On	◄ ►
Gamma	Middle	◄ ►
Color Temperature		►

◄►/♦ Select MENU Back

Blue Stretch

This is the function to make the white color look bluer.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Blue Stretch**.

4. Press the **Left** or **Right** button to select **On** or **Off**.

5. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK   ◄►/♦ Select   MENU Exit

Advanced Video		
DNR	Medium	◄ ►
MPEG NR	Low	◄ ►
Adaptive Luma Control	Off	◄ ►
Flesh Tone	Off	◄ ►
DI Film Mode	Auto	◄ ►
Blue Stretch	Off	◄ ►
Game Mode	Off	◄ ►
Blue Mute	On	◄ ►
Gamma	Middle	◄ ►
Color Temperature		►

◄►/♦ Select   MENU Back
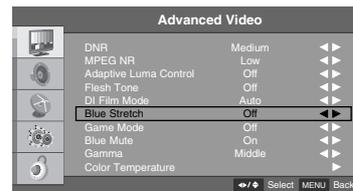
Blue Mute

Screen can be set to blue color when video signal is not existed.
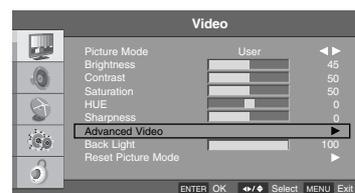
1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Blue Mute**.

4. Press the **Left** or **Right** button to select between **On** or **Off**.

5. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK   ◄►/♦ Select   MENU Exit

Advanced Video		
DNR	Medium	◄ ►
MPEG NR	Low	◄ ►
Adaptive Luma Control	Off	◄ ►
Flesh Tone	Off	◄ ►
DI Film Mode	Auto	◄ ►
Blue Stretch	Off	◄ ►
Game Mode	Off	◄ ►
Blue Mute	On	◄ ►
Gamma	Middle	◄ ►
Color Temperature		►

◄►/♦ Select   MENU Back

Gamma

This feature will allow you to adjust the brightness curve for the display.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Gamma**.

4. Press the **Left** or **Right** button to select between **Dark**, **Middle** or **Bright**.

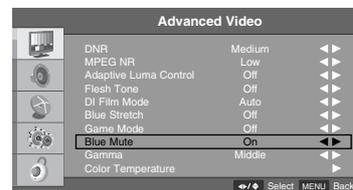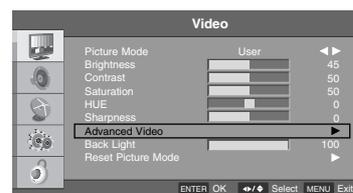5. Press the **MENU** button to return to the previous menu.

Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK   ◄►/♦ Select   MENU Exit

Advanced Video		
DNR	Medium	◄ ►
MPEG NR	Low	◄ ►
Adaptive Luma Control	Off	◄ ►
Flesh Tone	Off	◄ ►
DI Film Mode	Auto	◄ ►
Blue Stretch	Off	◄ ►
Game Mode	Off	◄ ►
Blue Mute	On	◄ ►
Gamma	Middle	◄ ►
Color Temperature		►

◄►/♦ Select   MENU Back
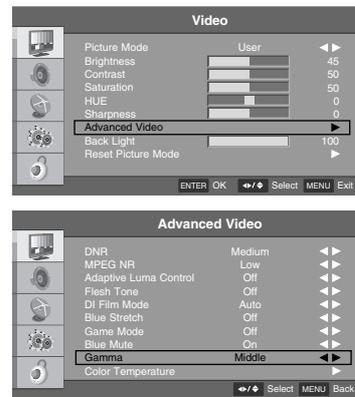
Color Temperature

The Color Temperature settings will allow you to adjust the lighting in the display to compliment your viewing preference.
The Cool setting will add more Blues and Greens into the image to give it a "cooler " feeling.
The Warm setting will add more Reds and Yellows into the image to give it a "warmer " feeling.
The Standard setting will be a more natural feeling and will fall between the Cool and Warm settings.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Video** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Advanced Video**.

3. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select and enter into the **Color Temperature** submenu.

4. Press the **OK** button and then press the **Left** or **Right** button to select between **Cool**, **Standard**, **Warm** or **User** settings.

5. If you selected the User setting, press the **Down** or **Up** button to select desired color option you wish to adjust.

6. Press the **OK** button and then use the **Left** or **Right** button to make appropriate adjustments.

7. Press the **MENU** button to return to the previous menu.

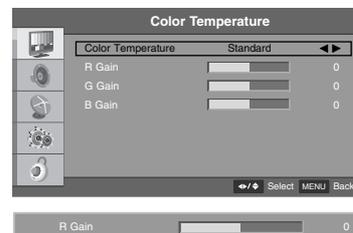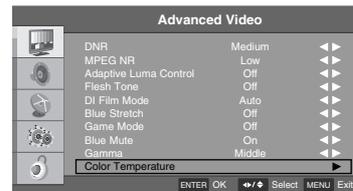| Video		
Picture Mode	User	◄ ►
Brightness		45
Contrast		50
Saturation		50
HUE		0
Sharpness		0
Advanced Video		►
Back Light		100
Reset Picture Mode		►

ENTER OK   ◄►/♦ Select   MENU Exit

Advanced Video		
DNR	Medium	◄ ►
MPEG NR	Low	◄ ►
Adaptive Luma Control	Off	◄ ►
Flesh Tone	Off	◄ ►
DI Film Mode	Auto	◄ ►
Blue Stretch	Off	◄ ►
Game Mode	Off	◄ ►
Blue Mute	On	◄ ►
Gamma	Middle	◄ ►
Color Temperature		►

ENTER OK   ◄►/♦ Select   MENU Exit

Color Temperature		
Color Temperature	Standard	◄ ►
R Gain		0
G Gain		0
B Gain		0

◄►/♦ Select   MENU Back

R Gain		0

Note
- To adjust manually Color Temperature on your display, change the **Color Temperature** Mode to **User**.

Screen Mode

You can watch the screen in various picture formats.
Screen size selection depends on the type of video input.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Screen Mode**.

3. Press the **Left** or **Right** button to select **Normal**, **Letterbox**, **Panorama**, **Auto** or **Just Scan**.

4. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄►
Screen Mode	Normal	◄►
Time Setup		►
Caption		►
Reset Default		►

◄►/◆ Select MENU Back
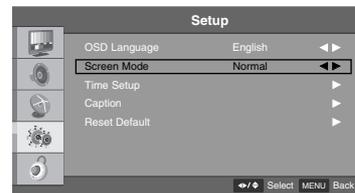
- **Normal**
  This selection is used to fill the entire screen with the image so no black bars appear

- **Letterbox**
  Following selection will lead you to view a picture with an original 4:3 aspect ratio, with black bars appearing at both the left and right sides.

- **Panorama**
  When your set receives the wide screen signal, when selected it will adjust the picture horizontally, in non-linear proportion, to fill the entire screen.

- **Auto**
  When your set receives the wide screen signal, it will change automatically the picture format that has been sent.

- **Just Scan**
  This mode is 0% overscan mode for 720p, 1080i, 1080p source when input source is HDMI.

Sound Controls

Adjusting The Sound Controls

The Sound Mode preset selection will allow you to adjust the sound to your listening preference.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Sound Mode**.

3. Press the **Left** or **Right** button to select between **Off**, **Techno**, **Classic** or **Soft** Modes.

4. Press the **MENU** button to return to the previous menu.

Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄ ►
Sound Mode	Off	◄ ►
Equalizer	Off	◄ ►
MTS	Stereo	◄ ►
Audio Language	English	◄ ►

◄►/◆ Select   MENU Exit

Manual Sound Controls

This function allows you to manually adjust the individual audio settings to your preferred levels.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select the desired sound option.(**Balance**, **Bass**, **Treble)**

3. Press the **OK** button to select the sound option that you wish to change and then press either the **Left** or **Right** button to make appropriate adjustments.

4. Press the **MENU** button to return to the previous menu.

Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄ ►
Sound Mode	Off	◄ ►
Equalizer	Off	◄ ►
MTS	Stereo	◄ ►
Audio Language	English	◄ ►

ENTER Adjust ◆/◆ Select MENU Exit

Balance		0

- **Balance**
  Adjusts the left to right sound balance between the built-in speakers.

- **Bass**
  This adjusts the presence of the lower frequency audio.

- **Treble**
  This adjusts the presence of the higher frequency audio.

Sound Surround

Surround sound adds an extra dimension to the depth of to the sound.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Sound Surround**.

3. Press the **Left** or **Right** button to select between **On** or **Off**.

4. Press the **MENU** button to return to the previous menu.

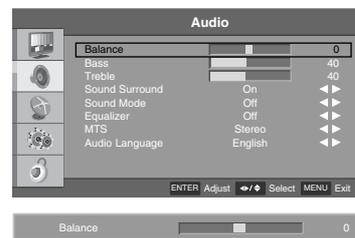| Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄►
Sound Mode	Off	◄►
Equalizer	Off	◄►
MTS	Stereo	◄►
Audio Language	English	◄►
	◄►/♦ Select MENU Exit	

Equalizer

User can enable equalizer mode.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Equalizer**.

3. Press the **Left** or **Right** button to select between **Rock**, **Pop**, **Live**, **Dance**, **Techno**, **Classic**, **Soft** or **Off**.

4. Press the **MENU** button to return to the previous menu.

Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄►
Sound Mode	Off	◄►
Equalizer	Off	◄►
MTS	Stereo	◄►
Audio Language	English	◄►
	◄►/♦ Select MENU Exit	

Stereo/SAP Broadcast Setup

This TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that the station may transmit.
The television will automatically switch to Mono sound if the broadcasted channel is transmitted in Mono.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **MTS**.

3. Press the **Left** or **Right** button to select between **Stereo**, **SAP** or **Mono**.

4. Press the **MENU** button to return to the previous menu.

Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄ ►
Sound Mode	Off	◄ ►
Equalizer	Off	◄ ►
MTS	Stereo	◄ ►
Audio Language	English	◄ ►
	◄►/◆ Select MENU Exit	

Audio Language

Other languages may be available if a digital signal is provided by the broadcasting station.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button to select the **Audio** sub-menu.

2. Press the **OK** button to enter the sub-menu and then press either the **Down** or **Up** button to select **Audio Language**.

3. Press the **Left** or **Right** button to select between **English**, **Español** or **Français**.

4. Press the **MENU** button to return to the previous menu.

Audio		
Balance		0
Bass		40
Treble		40
Sound Surround	On	◄ ►
Sound Mode	Off	◄ ►
Equalizer	Off	◄ ►
MTS	Stereo	◄ ►
Audio Language	English	◄ ►
	◄►/◆ Select MENU Exit	

Captions

Closed Caption - Analog

The Analog Caption function operates when watching a regular analog channel.
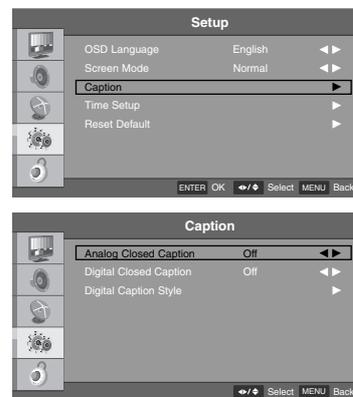
1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Caption**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Analog Closed Caption**.

4. Press the **Left** or **Right** button to select between **Off**, **CC1**, **CC2**, **CC3**, **CC4**, **TEXT1**, **TEXT2**, **TEXT3** or **TEXT4**.

5. Press the **MENU** button to return to the previous menu.

- **Caption**
  The term for the words that scroll across the botto-mof the TV screen; usually the audio portion of the program provided for the hearing impaired.

- **TEXT**
  The term for the words that appear in a large black-frame and almost cover the entire screen; usually messages provided by the broadcaster.

Setup		
OSD Language	English	◄►
Screen Mode	Normal	◄►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK   ◄►/◄► Select MENU Back

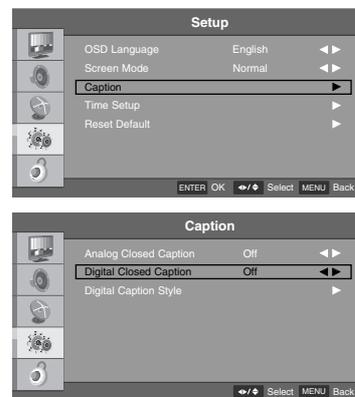| Caption		
Analog Closed Caption	Off	◄►
Digital Closed Caption	Off	◄►
Digital Caption Style		►

◄►/◄► Select MENU Back

Note
- If you want to select directly the Closed Captions, press the **CC** button on the remote control.

Closed Caption - Digital

The Digital Caption function only operates on digital channels.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Caption**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Digital Closed Caption**.

4. Press the **Left** or **Right** button to select between **Off**, **Service1**, **Service2**, **Service3**, **Service4**, **Service5** or **Service6**.

5. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK ◄►/◆ Select MENU Back

Caption		
Analog Closed Caption	Off	◄ ►
Digital Closed Caption	Off	◄ ►
Digital Caption Style		►

◄►/◆ Select MENU Back
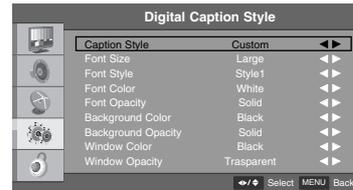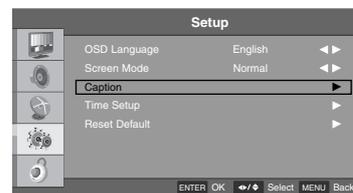
Chapter 7: Using the TV's Features

Digital Closed Caption Options

Customize the DTV captions that appear on your screen.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Caption**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Digital Caption Style**.

4. Press the **OK** button and then press the **Down** or **Up** button to select **Caption Style**.

5. Press the **Left** or **Right** button to select **Custom**.

6. Press the **Down** or **Up** button to select desired caption option you wish to change. (Select between: **Font Size**, **Font Color**, **Font Opacity**, **Background Color**, **Background Opacity**, **Window Color**, **Window Opacity**)

7. Press the **Left** or **Right** button to customize your selected preference.

8. Press the **MENU** button to return to the previous menu.

Setup	
OSD Language	English ◄►
Screen Mode	Normal ◄►
Caption	►
Time Setup	►
Reset Default	►

ENTER OK ◄►/◆ Select MENU Back

Digital Caption Style	
Caption Style	Custom ◄►
Font Size	Large ◄►
Font Style	Style1 ◄►
Font Color	White ◄►
Font Opacity	Solid ◄►
Background Color	Black ◄►
Background Opacity	Solid ◄►
Window Color	Black ◄►
Window Opacity	Trasparent ◄►

◄►/◆ Select MENU Back

- **Font Size**
  Set the size in which the captions will appear in.
- **Font Style**
  Select a typeface for the words.
- **Font Color**
  Set the color in which the captions will appear in.
- **Font Opacity**
  Select the transparency for the captions.

- **Background Color**
  Select a background color for the captions.
- **Background Opacity**
  Select the transparency for the background.
- **Window Color**
  Select a color for the edges.
- **Window Opacity**
  Select the transparency for the edges.

Note
- If the Caption Style is selected to "**As Broadcaster**", the Caption Options cannot be adjusted.
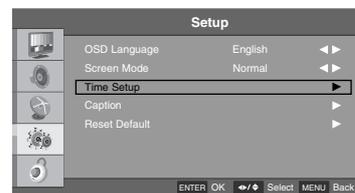
Time Setting

Time Zone Settings

This mode allows you to set the Time Zone for your local area.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Time Setup**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Time Zone**.

4. Use the **Left** or **Right** button to select your viewing area's time zone. (Select between: **Eastern Time**, **Indiana**, **Central Time**, **Mountain Time**, **Arizona**, **Pacific Time**, **Alaska**, **Hawaii**)

5. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Time Setup		►
Caption		►
Reset Default		►

ENTER OK ◄►/♦ Select MENU Back

Time Setup		
Time Zone		►
Time		►
Sleep Timer	Off	◄ ►

ENTER OK ◄►/♦ Select MENU Back

Time Setup		
Time Zone	Central Time	◄ ►

ENTER OK ◄►/♦ Select MENU Back
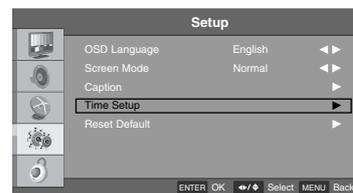
Auto Time Settings

The Auto Time Setting receives the current time from an available digital channel.
The digital channel signal includes information for the current time provided by the broadcasting station.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Time Setup**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Time**.

4. Press the **OK** button and then press the **Down** or **Up** button to select **Auto Synchronization**.

5. Press the **Left** or **Right** button to switch between **On** or **Off**.

6. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK   ↔/↕ Select   MENU Back

Time Setup		
Time Zone		►
Time		►
Sleep Timer	Off	◄ ►

ENTER OK   ↔/↕ Select   MENU Back

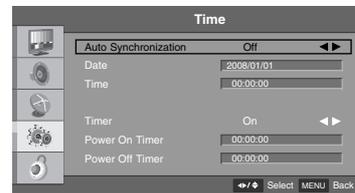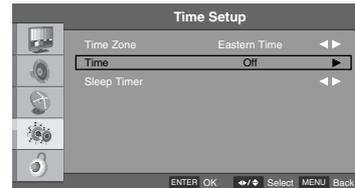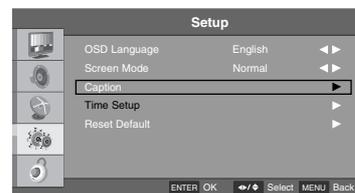| Time		
Auto Synchronization	On	◄ ►
Date	2008/01/01	
Time	00:00:00	
Timer	Off	◄ ►
Power On Timer	00:00:00	
Power Off Timer	00:00:00	

↔/↕ Select   MENU Back

Note
- If Auto Synchronization is On, the Date and Time menus cannot be adjusted.
- Set the time manually if the current time is incorrect using the Auto Synchronization function.

Manual Time Settings

If the current time setting is wrong when using the Auto Synchronization function, this setting allows you to set the clock manually.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Time Setup**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Time**.

4. Press the **OK** button and then press the **Down** or **Up** button to select **Auto Synchronization**.

5. Press the **Left** or **Right** button to turn **Auto Synchronization Off**.

6. Press the **Down** or **Up** button to select **Date** or **Time**.

7. Use the **Left** or **Right** button to select the variable that you want to change and use number buttons to enter the date or time.

8. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄►
Screen Mode	Normal	◄►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK ◄►/♦ Select MENU Back

Time Setup		
Time Zone	Eastern Time	◄►
Time	Off	►
Sleep Timer		◄►

ENTER OK ◄►/♦ Select MENU Back

Time		
Auto Synchronization	Off	◄►
Date	2008/01/01	
Time	00:00:00	
Timer	On	◄►
Power On Timer	00:00:00	
Power Off Timer	00:00:00	

◄►/♦ Select MENU Back
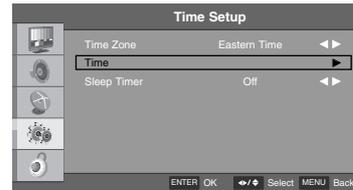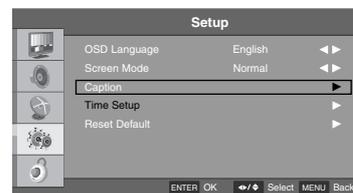
Auto On /Off Time Settings

The timer function will only operate when the current time has been set.
This function automatically turns the TV On and Off at the specific time you designate.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Time Setup**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Time**.

4. Press the **OK** button and then press the **Down** or **Up** button to select **Timer**.

5. Press the **Left** or **Right** button to select **On**. If **Timer** is selected to **Off**, **Power On Timer** and **Power Off Timer** menu are cannot be adjusted.

6. Press the **Down** or **Up** button to select **Power On Timer** or **Power Off Timer**.

7. Press the **Left** or **Right** button to move to the desired variable and use number buttons to set time.

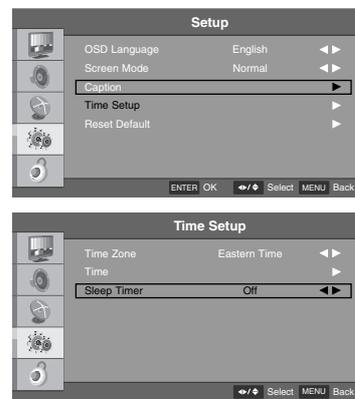8. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK ◄►/◄► Select MENU Back

Time Setup		
Time Zone	Eastern Time	◄ ►
Time		►
Sleep Timer	Off	◄ ►

ENTER OK ◄►/◄► Select MENU Back

Time		
Auto Synchronization	Off	◄ ►
Date	2008/01/01	
Time	00:00:00	
Timer	Off	◄ ►
Power On Timer	00:00:00	
Power Off Timer	00:00:00	

◄►/◄► Select MENU Back

Sleep Timer

The sleep timer automatically switches the set to standby after the preset time elapses.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Time Setup**.

3. Press the **OK** button and then press the **Down** or **Up** button to select **Sleep Timer**.

4. Press the **Left** or **Right** button to select desired sleep time.
The timer begins to count down from the number of minutes selected and will switch the unit to standby when the time runs out.

5. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK   ⬌/⬍ Select   MENU Back

Time Setup		
Time Zone	Eastern Time	◄ ►
Time		►
Sleep Timer	Off	◄ ►

⬌/⬍ Select   MENU Back

Note
- If you want to select directly select the sleep timer without entering the menus, press the **SLEEP** button on the remote control.
- Every time you press the button, it will switch between **Off**, **10**, **20**, **30**, **40**, **50**, **60**, **90** and **120**.

Reset

Reset Default

This function returns all of the menu selections back to their original factory preset values.
This function removes all TV channels from memory. Channels must be scanned for again after resetting to the unit to factory defaults.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Setup** sub-menu.

2. Press the **OK** button to enter the submenu and then press either the **Down** or **Up** button in order to select **Reset Default**.

3. Press the **OK** button and then press the **Left** or **Right** button to highlight the **OK** button.

4. Press the **OK** button on the remote control to reset all settings.

5. Press the **MENU** button to return to the previous menu.

Setup		
OSD Language	English	◄ ►
Screen Mode	Normal	◄ ►
Caption		►
Time Setup		►
Reset Default		►

ENTER OK ◄►/◆ Select MENU Back

Are you sure?

OK	Cancel

Parental Control

Entering your password

Parental Control can be used to block specific channels, ratings and other viewing sources.

The default password of 0-0-0-0 is required to gain access to this menu.

1. Press the **MENU** button to enter the on-screen menu and then press either the **Down** or **Up** button in order to select the **Parental** sub-menu.

2. Press the **OK** button and then enter the default password as requested.

3. The TV is set up with the initial password of "**0-0-0-0** ".
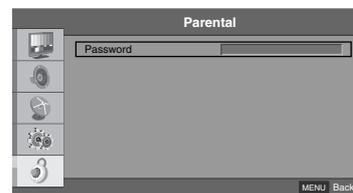
Set Password

This option will allow you to input a new password of your choice.

1. After entering the parental sub-menu, press the **Down** or **Up** button to select **Change Password**.

2. Press the **OK** button and then select any 4 digits for your new password and enter them in the **New Password** section.

3. As soon as the 4 digits are entered, re-enter the same 4 digits on the **Confirm Password** to finalize your selection.

4. Your new password has now been memorized.

5. Press the **MENU** button to return to the previous menu.
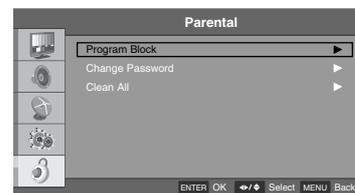
Note
- Write down your new password and keep it somewhere safe for the case of forgetting it in the future.

Ratings - Enable / Disable

Enables or disables a parental blocking scheme.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Rating Enable**.

3. Press the **Left** or **Right** button to select **On** or **Off**. When you select **On**, the Program Block options are enabled.

4. Press the **MENU** button to return to the previous menu or scroll down to edit a Program Block option.
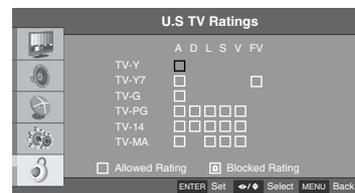
Parental	
Program Block	▶
Change Password	▶
Clean All	▶

ENTER OK   ◄►/♦ Select MENU Back

Program Block	
Rating Enable	On ◄ ►
U.S. TV Ratings	▶
U.S. Movie Ratings	▶
Canadian English Ratings	▶
Canadian French Ratings	▶
Open V-Chip	▶
Block Unrated	Off ◄ ►

◄►/♦ Select MENU Back
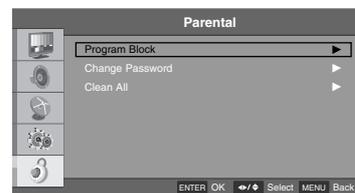
TV Ratings for USA

This rating system has been established to help you monitor and block the types of programs viewed on TV. Ratings with a lock next to them will be blocked from being viewed.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press either the **Down** or **Up** button to select **U.S.TV Ratings**.

3. Press the **OK** button to enter the sub-menu.

4. Use the **Down**, **Up**, **Left** or **Right** buttons to high-light the selection you wish to block and press the **OK** button to block that selection.
(Note:See rating descriptions on the next page.)

5. Press the **MENU** button to return to the previous menu.

Parental		
Program Block		▶
Change Password		▶
Clean All		▶

ENTER OK ◄►/◆ Select MENU Back

Program Block		
Rating Enable	On	◄►
U.S. TV Ratings		▶
U.S. Movie Ratings		▶
Canadian English Ratings		▶
Canadian French Ratings		▶
Open V-Chip		▶
Block Unrated	Off	◄►

ENTER OK ◄►/◆ Select MENU Back

U.S TV Ratings

	A	D	L	S	V	FV
TV-Y	□					
TV-Y7	□					□
TV-G	□					
TV-PG	□	□	□	□	□	
TV-14	□	□	□	□	□	
TV-MA	□		□	□	□	

□ Allowed Rating   ▣ Blocked Rating

ENTER Set ◄►/◆ Select MENU Back

TV (FCC) Age Categories

- **TV-MA**
  Mature audiences only.
  This program may contain mature themes, profane language, graphic violence and explicit sexual content.

- **TV-14**
  Parents strongly cautioned.
  This program may contain sophisticated themes, sexual content, strong language and more intense violence.

- **TV-PG**
  Parental guidance suggested.
  The program may contain infrequent coarse language, limited violence, some suggestive sexual dialog and situations.

- **TV-G**
  General audience.
  This contains little or no violence, no strong language, and little or no sexual dialog or situations.

- **TV-Y7**
  Directed for older children.
  Themes and elements in this program may include mild physical or comedic violence, or may frighten children under the age of seven.

- **TV-Y**
  All children.
  The themes and elements in this program are specifically designed for a very young audience, including children from ages two – six.
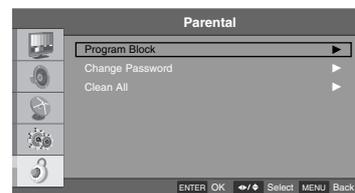
TV (FCC) Content Sub-Categories:

- **D:** Dialog...sexual innuendo.
- **L:** Offensive language.
- **S:** Sexual Situation
- **V:** Violence.
- **FV:** Fantasy or cartoon violence.
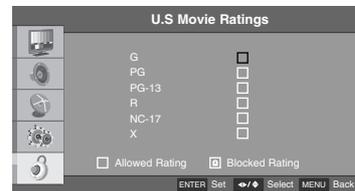
Movie Ratings

This rating system has been established to help you monitor and block the types of movies viewed.
These ratings apply to movies broadcasted on TV and allows you to select which ratings you want blocked.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press either the **Down** or **Up** button to select **U.S. Movie Ratings**.

3. Press the **OK** button to enter the submenu.

4. Press the **Down** or **Up** buttons to choose the rating you wish to block and press the **OK** button to block that selection. (See rating descriptions below)

5. Press the **MENU** button to return to the previous menu.

Parental	
Program Block	▶
Change Password	▶
Clean All	▶

ENTER OK ◆/◆ Select MENU Back

Program Block		
Rating Enable	On	◀▶
U.S. TV Ratings		▶
U.S. Movie Ratings		▶
Canadian English Ratings		▶
Canadian French Ratings		▶
Open V-Chip		▶
Block Unrated	Off	◀▶

ENTER OK ◆/◆ Select MENU Back

U.S Movie Ratings

G	☐
PG	☐
PG-13	☐
R	☐
NC-17	☐
X	☐

☐ Allowed Rating   ▣ Blocked Rating

ENTER Set ◆/◆ Select MENU Back

The MPAA Rating System (Movies)

- **G**
  General Audience.
- **PG**
  Parental guidance suggested.
- **PG-13**
  Parents strongly cautioned.
- **R**
  Restricted.
- **NC-17**
  No one 17 and under admitted.
- **X**
  Adults only.

Note
- If you block PG-13, G and PG movies will be available, PG-13, R, NC-17 and X will be blocked.
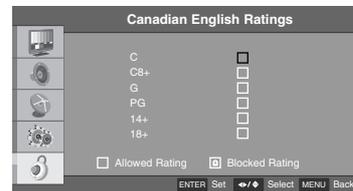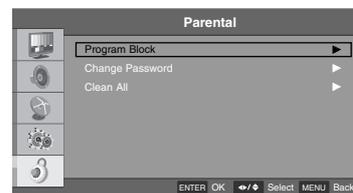
English TV Ratings for Canada

This rating system has been established to help you monitor and block the types of programs viewed on TV. Ratings with a lock next to them will be blocked from being viewed.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Canadian English Ratings**.

3. Press the **OK** button to enter the sub-menu.

4. Press the **Down** or **Up** buttons to choose the selection you wish to block and press the **OK** button on the remote to block it. (See rating descriptions below)

5. Press the **MENU** button to return to the previous menu.

Canadian English Ratings

- **C**
  Children
- **C8+**
  Children eight years and older
- **G**
  General programming,suitable for all audiences
- **PG**
  Parental Guidance
- **14+**
 Viewers 14 years and older
- **18+**
  Adult programming

	Parental	
	Program Block	▶
	Change Password	▶
	Clean All	▶
		ENTER OK ✦/✦ Select MENU Back

	Program Block	
	Rating Enable	On ◀▶
	U.S. TV Ratings	▶
	U.S. Movie Ratings	▶
	Canadian English Ratings	▶
	Canadian French Ratings	▶
	Open V-Chip	▶
	Block Unrated	Off ◀▶
		ENTER OK ✦/✦ Select MENU Back

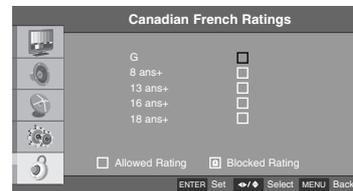|	Canadian English Ratings	
	C	☐
	C8+	☐
	G	☐
	PG	☐
	14+	☐
	18+	☐
	☐ Allowed Rating ▣ Blocked Rating	
		ENTER Set ✦/✦ Select MENU Back

French TV Ratings for Canada

This rating system has been established to help you monitor and block the types of programs viewed on TV. Ratings with a lock next to them will be blocked from being viewed.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Canadian French Ratings**.

3. Press the **OK** button to enter the sub-menu.

4. Press the **Down** or **Up** buttons to choose the selection you wish to block and press the **OK** button on the remote to block it. (See rating descriptions below)

5. Press the **MENU** button to return to the previous menu.
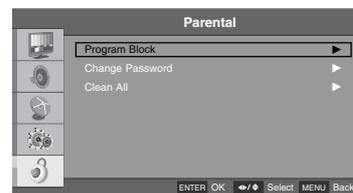
Canadian French Ratings

- **G**
  General
- **8 ans+**
  General-Not convenient for little children
- **13 ans+**
  Not convenient for children of 13 years and younger
- **16 ans+**
  Not convenient for children of 16 years and younger
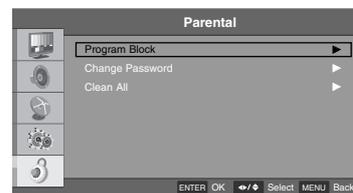- **18 ans+**
  This programs is only for adult

Parental	
Program Block	▶
Change Password	▶
Clean All	▶
ENTER OK ◆/◆ Select MENU Back	

Program Block		
Rating Enable	On	◀▶
U.S. TV Ratings		▶
U.S. Movie Ratings		▶
Canadian English Ratings		▶
Canadian French Ratings		▶
Open V-Chip		▶
Block Unrated	Off	◀▶
ENTER OK ◆/◆ Select MENU Back		

Canadian French Ratings	
G	☐
8 ans+	☐
13 ans+	☐
16 ans+	☐
18 ans+	☐
☐ Allowed Rating ▣ Blocked Rating	
ENTER Set ◆/◆ Select MENU Back	

Downloadable Rating

Your TV's OSD (On Screen Display) may differ slightly from what is shown in this manual.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Open V-Chip**.

3. Press the **OK** button twice.

4. Press the **Down** or **Up** buttons to choose the menu options for **Open V-Chip**.

5. Press the **OK** button to make your selection.

6. Press the **MENU** button to return to the previous menu.

Parental	
Program Block	▶
Change Password	▶
Clean All	▶

ENTER OK ◆/◆ Select MENU Back

Program Block		
Rating Enable	On	◀▶
U.S. TV Ratings		▶
U.S. Movie Ratings		▶
Canadian English Ratings		▶
Canadian French Ratings		▶
Open V-Chip		▶
Block Unrated	Off	◀▶

ENTER OK ◆/◆ Select MENU Back

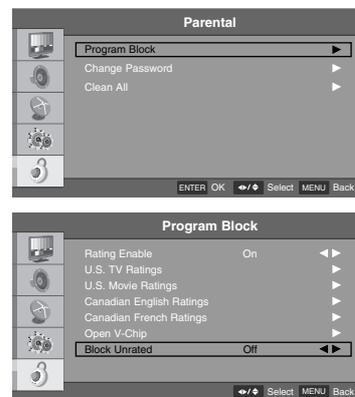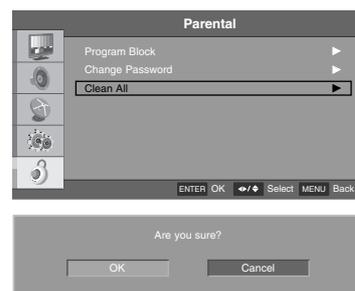| Open V-Chip	
U.S.(50 States+Possessions)	▶

ENTER OK ◆/◆ Select MENU Back

Note
- This function may become available in the future and will be available only for digital channel signal.
- This function operates only when TV has received Region5 Rating data.

Block Unrated

Block Unrated can be used to block unrated channels, ratings and other viewing sources.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Program Block**.

2. Press the **OK** button and then press the **Down** or **Up** button to select **Block Unrated**.

3. Press the **Left** or **Right** button to select **On** or **Off**.

4. Press the **MENU** button to return to the previous menu.

Parental	
Program Block	▶
Change Password	▶
Clean All	▶
ENTER OK ◆/◆ Select MENU Back	

Program Block		
Rating Enable	On	◄►
U.S. TV Ratings		►
U.S. Movie Ratings		►
Canadian English Ratings		►
Canadian French Ratings		►
Open V-Chip		►
Block Unrated	Off	◄►
	◆/◆ Select MENU Back	

Clean All

This function cleans and resets all current parental block settings.

1. After entering the **Parental** sub-menu, press the **Down** or **Up** button to choose **Clean All**.

2. Press the **OK** button on the remote control to select **Clean All** and then press the **Left** or **Right** button to select **OK** button.

3. Press the **OK** button to clean and reset the **Program Block** menu options.

4. Press the **MENU** button to return to the previous menu.

Parental	
Program Block	▶
Change Password	▶
Clean All	▶
ENTER OK ◆/◆ Select MENU Back	

Are you sure?	
OK	Cancel

USB Functions (Option)

If user insert USB memory to USB port then TV go to USB mode and play photo or music automatically. If user want to display MMP MENU then user can press CC key.

USB Operation

1. Press the **CC** button when the directory is displayed.

2. Press the **Down** or **Up** button to select desired menu.

3. You can select function between Photo and Music in Media Type Menu.
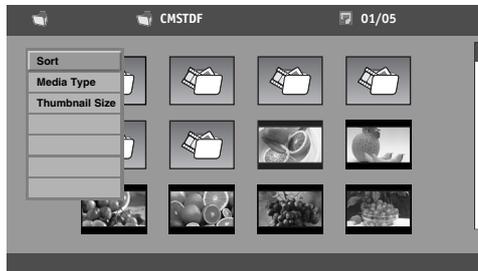
1. Press the **CC** button when the picture is displayed.

2. Press the **Down** or **Up** button to select desired menu.

1. Press the **CC** button when the music played.

2. Press the **Down** or **Up** button to select desired menu.

Specifications

Models	J12H770	
Dimension (Width x Height x Depth)	297.8mm x 255.6mm x 83.5mm 11.72 x 10.06 x 3.29 inches	
Weight (kg / lbs)	1.4 kg / 3.09 lbs	
Brightness	200cd/m²	
Panel Resolution	1280 (H) x 800 (V)	
Power Rating	DC 24V	
Consumption	33W	
Audio Output	1W + 1W	
Contrast Ratio	300:1	
Accessories	• Owner's Manual	• Power Cord (Optional)
	• Power Unit (Optional)	• DVD Bracket (Optional)
External Cable	J12H770-NO3, J12H770-NO4 • Male RF Cable • Female Composite Cable (Video, Audio L/R) • Female 3.5mm Stereo Cable (RS232C)	J12H770-DV3, J12H770-DV4 • Male RF Cable • Female 3.5mm Stereo Cable (RS232C) • Male DC 5V Jack • Male 3.5mm Cable (Audio) • Male 3.5mm Cable (Y, Pb, Pr)
External Port	• USB IN • Headphone	

• The Specification shown above may be changed without notice.

Chapter 8: Other Information

Troubleshooting

Problem	Check Point
No picture on screen.	• Check whether the set is turned on. • Power cord inserted into wall outlet? • Test if there is power coming from the wall outlet by plugging in another product into the wall outlet where the set's power cord was plugged in.
The remote control doesn't work.	• Ensure remote is enabled in Commercial Interface menu. • Ensure TV1/TV2 settings of TV match the remote.
Picture appears slowly, after switching on.	• This is normal as the image is muted during the start up process of the set. Please contact your service center, if the picture has not appeared after five minutes.
No or Poor color	• Select color in the Picture menu and press the **Left** or **Right** button.
Horizontal/Vertical bars or picture shaking	• Check for local interference such as a nearby electrical appliance or power tool.
Unusual sound from inside the set.	• A change in ambient humidity or temperature may result in an unusual noise at the time of switching off or on of the set and does not indicate a fault with the set.

Limited Warranty

Your Display will be repaired or replaced in accordance with the terms of this warranty, if it proves to be defective in material or workmanship under normal use, during the warranty period ("Warranty Period") listed below, effective from the date ("Date of Purchase") of original consumer purchase of the product. This warranty is good only to the original purchaser of the product and effective only when used in the United States, excluding U.S. Territories.

WARRANTY PERIOD

Labor and parts: 2 years from the Date of Purchase. Your unit will be repaired or replaced with a new, substitute model or factory reconditioned unit. If repaired, parts used in the repair may be new or remanufactured.
Replacement Units and Repair Parts are warranted for the remaining portion of the original unit's warranty period.

Effective date of warranty:
Your warranty period begins on the date of sale to the original consumer/end user. KEEP THE DEALER'S DATED BILL OF SALE OR PROOF OF DELIVERY as evidence of the purchase date.
You will be required to submit a legible copy of your bill of sale or proof of delivery when requesting warranty service.

THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. TO THE EXTENT ANY IMPLIED WARRANTY IS REQUIRED BY LAW, IT IS LIMITED IN DURATION TO THE EXPRESS WARRANTY PERIOD ABOVE. NEITHER THE MANUFACTURER NOR ITS U.S. DISTRIBUTOR SHALL BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING WITHOUT LIMITATION, LOST PROFITS, LOST OR CORRUPTED PROGRAMMING OR DATA, OR ANY OTHER DAMAGE WHETHER BASED IN CONTRACT, TORT, OR OTHERWISE.
Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusion or limitation may not apply to you. This warranty gives you specific legal rights and you may also have other rights that vary from state to state.

Concerning Pixel Functionality:
Your display contains about one million individual pixels.
Your display typically contain a small number of pixels that do not function normally. Your display has been inspected and is in compliance with manufacturer's specifications, indicating that any pixel defects do not effect the operation or use of your display.

THIS LIMITED WARRANTY DOES NOT APPLY TO:

- Damage caused in shipping or transit
- Service required as a result of improper installation, including incorrect or insufficient AC supply (please consult the owner's manual for power supply requirements).
- Installation or repair of antenna systems, cable converters, cable company supplied equipment, or other components in a video system
- Set-up or adjustment on consumer controls, or damage caused by improper adjustments
- Damage caused by other system components
- Any panel that has been modified or incorporated into any other product
- Replacement of batteries on the remote control.
- Damage (including cosmetic damage), failure, loss or personal injury due to misuse, abuse, negligence, improper maintenance or storage, or to acts of nature or other causes beyond our control. (Causes beyond our control include but are not limited to lightning strike, power surges, power outages and water damage.)
- Image burn-in
- Repair or replacement of warranted parts by anyone other than an authorized service centers.
- Units purchased or serviced outside of the coverage area.
- Product where the original factory serial numbers have been removed, defaced or changed in any way.
- Product sold and labeled as "as is, where is" or similar disclaimer.

How you get service:
- Contact your dealer, or visit http://service.rcacommercialtv.com, or call 800-RCA-2161.
- Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the product is within the warranty period must be presented to obtain warranty service. For rental firms, proof of first rental is also required.
- To contact the RCA Commercial warranty center by E-mail : service@rcacommercialtv.com

Product Registration:
- Please complete and mail the Product Registration Card packed with your TV or register online at http://service.rcacommercialtv.com. It will make it easier to contact you should it ever be necessary. The return of the card is not required for warranty coverage.

Care and Cleaning

CAUTION: Turn OFF your TV before cleaning.
You can clean the TV as required, using a dry cloth. Be sure to occasionally dust the ventilation slots in the cabinet to help assure adequate ventilation.

IMPORTANT: Do not allow liquid to come in contact with the TV, or allow liquid to run down the screen and inside the TV. Also, never place drinks or vases with water on top of the TV. This could increase the risk of fire or shock hazard or damage to the TV. Never use cleaning agents, they will damage the TV.

CHILD SAFETY:
It Makes A Difference How and Where You Use Your Flat Panel Display

Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:

THE ISSUE

- The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
- Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!

- The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY

- One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't allow children to climb on or play with furniture and television sets.
- Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:

- Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
- Follow all instructions supplied by the display and wall mount manufacturers.
- If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
- Make sure that the wall where you are mounting the display is appropriate. Some wall mounts are not designed to be mounted to walls with steel studs or old cinder block construction. If you are unsure, contact a professional installer.
- A minimum of two people are required for installation. Flat panel displays can be heavy.

CEA
Consumer Electronics Association

www.CE.org/safety

Visit the RCA website at http://service.rcacommercialtv.com

Please do not send any products to the Indianapolis address listed in this manual or on the carton. This will only add delays in service for your product.

DTI

DTI Services, LLC
1416 Miller Ave.
Shelbyville, In 46176